

ATSAMD20J16A-CN



Part Number: [ATSAMD20J16A-CN](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 64KB FLASH 64UFBGA

Data sheet:  [SAM D20\(E,G,J\) Summary](#)  
 [SAM D20 Family Silicon Errata](#)  
 [SAM D20 Family Complete Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

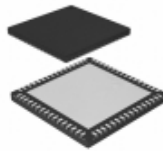
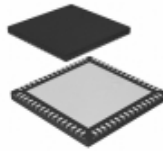
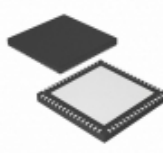
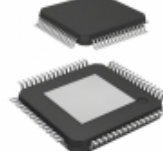
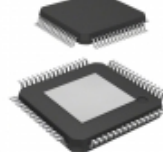
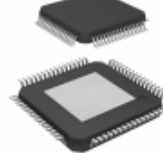
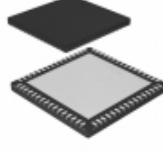
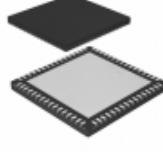
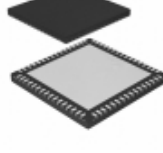
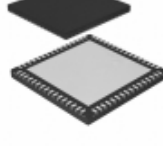
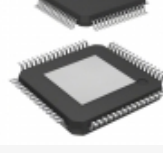
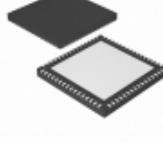
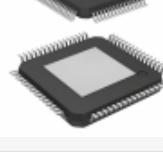
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Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                               |                                 |                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ATSAMD20J16A-CN                                                                               | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                                                                      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 64KB FLASH 64UFBGA                                                               | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 46436 pcs                                                                                     | Data sheet                      | <a href="#">SAM D20(E,G,J) Summary</a><br><a href="#">SAM D20 Family Silicon Errata</a><br><a href="#">SAM D20 Family Complete</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                                                     | Voltage - Supply (Vcc/Vdd)      | <a href="#">Datasheet</a><br>1.62 V ~ 3.6 V                                                                                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-UFBGA (5x5)                                                                                | Speed                           | 48MHz                                                                                                                              |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SAM D20J                                                                                      | RAM Size                        | 8K x 8                                                                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                                                                         | Program Memory Size             | 64KB (64K x 8)                                                                                                                     |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Brown-out Detect/Reset, POR, WDT                                                              | Packaging                       | Tray                                                                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 64-UFBGA                                                                                      | Oscillator Type                 | Internal                                                                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C ~ 105°C (TA)                                                                            | Number of I/O                   | 52                                                                                                                                 |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 (168 Hours)                                                                                 | Manufacturer Standard Lead Time | 24 Weeks                                                                                                                           |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                                    | EEPROM Size                     | -                                                                                                                                  |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ARM® Cortex®-M0+ SAM D20J Microcontroller IC 32-Bit 48MHz 64KB (64K x 8) FLASH 64-UFBGA (5x5) | Data Converters                 | A/D 20x12b, D/A 1x10b                                                                                                              |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32-Bit                                                                                        | Core Processor                  | ARM® Cortex®-M0+                                                                                                                   |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | I²C, SPI, UART/USART                                                                          | Base Part Number                | ATSAMD20J16                                                                                                                        |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAMD20J16A-MUT</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J15A-MU</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J15B-MU</a><br>Description: 64QFN IND TEMP, GREEN,1.6-3.6V,4  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16B-AU</a><br>Description: 64TQFP IND TEMP, GREEN,1.6-3.6V,  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J15B-AUT</a><br>Description: 64TQFP IND TEMP, GREEN,1.6-3.6V, | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16B-ANT</a><br>Description: 64TQFP 105C, GREEN,1.6-3.6V,48MH | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-MU</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-MNT</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-AU</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-AUT</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-AN</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-CNT</a><br>Description: IC MCU 32BIT 64KB FLASH 64UFBGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J15A-MUT</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-CU</a><br>Description: IC MCU 32BIT 64KB FLASH 64UFBGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-MN</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16B-AN</a><br>Description: 64TQFP 105C, GREEN,1.6-3.6V,48MH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J15B-MUT</a><br>Description: 64QFN IND TEMP, GREEN,1.6-3.6V,4 | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-ANT</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J16A-CUT</a><br>Description: IC MCU 32BIT 64KB FLASH 64UFBGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J15B-AU</a><br>Description: 64TQFP IND TEMP, GREEN,1.6-3.6V,  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

| Related keywords for ATSAMD20J16A-CN          |                                      |                                        |                       |
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